

**SUMMARY OF HYDROLOGIC CONDITIONS  
IN THE  
UPPER DELAWARE RIVER BASIN**

**January 2003**

Prepared by the  
Office of the Delaware River Master  
Milford, Pennsylvania

Adjusted streamflow in the upper Delaware River Basin during January was in the normal range. The maximum daily mean discharge of 17,600 cfs occurred on January 3. The minimum daily mean discharge was 4,300 cfs on January 31.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during January was 6,845 cfs, which is 139 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 7,599 cfs, or 173 percent of median (water years 1961-90).

On the basis of a 5-station average, precipitation during January was 2.38 inches, which is 80 percent of the 62-year average. The maximum daily-average precipitation during the month was 1.05 inches on January 2. Precipitation in the upper Delaware River Basin during the past 12 months was 4.18 inches more than the long-term average. Precipitation during January was 0.60 inches less than the long-term average for the month.

Combined storage February 1, 2003 in Pepacton, Cannonsville, and Neversink Reservoirs was 89 percent of capacity above the point of maximum depletion. The combined storage of 242 billion gallons was 17 billion gallons more than that of one month ago and 163 billion gallons more than that of one year ago. Median storage on the first day of February in 35 years of record is 214 billion gallons.

As part of a statewide network, the USGS operates 12 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during January were above average in 9 of the wells. Water levels in 8 of the wells were above December 2002 levels, and water levels in all 12 wells were above January 2002 levels.

# HYDROLOGIC CONDITIONS IN THE UPPER DELAWARE RIVER BASIN

Compiled by the Office of the Delaware River Master, Milford, Pa.

(Preliminary data - subject to revision)

## PRECIPITATION, IN INCHES

	Dec. 1940 to Jan. 2002		February 2002 to January 2003					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Feb.	2.65	43.11	1.59	47.29	60	110	-1.06	+4.18
Mar.	3.35	40.46	3.59	45.70	107	113	+.24	+5.24
Apr.	3.73	37.11	3.89	42.11	104	113	+.16	+5.00
May	4.19	33.38	5.94	38.22	142	114	+1.75	+4.84
June	3.96	29.19	5.74	32.28	145	111	+1.78	+3.09
July	4.07	25.23	1.32	26.54	32	105	-2.75	+1.31
Aug.	3.83	21.16	*3.31	25.22	86	119	-.52	+4.06
Sept.	3.86	17.33	4.86	21.91	126	126	+1.00	+4.58
Oct.	3.35	13.47	6.31	17.05	188	127	+2.96	+3.58
Nov.	3.79	10.12	3.68	10.74	97	106	-.11	+.62
Dec.	3.35	6.33	4.68	7.06	140	112	+1.33	+.73
Jan.	2.98	2.98	2.38	2.38	80	80	-.60	-.60

Note: Amount shown in cumulative columns is total from month shown to present.

\* Revised since last month.

## STREAMFLOW, IN CFS DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-2001			2003 Monthly mean	Percent of median
	Maximum	Median	Minimum		
January (observed)	15,600 (1996)	4,922	1,318 (1981)	6,845	139
January (adjusted)	21,330 (1996)	5,820	1,064 (1981)	7,599	131
February (observed)	15,120 (1976)	5,468	1,748 (1980)		
February (adjusted)	20,330 (1981)	5,613	1,373 (1980)		